

IN THE SPECIFICATION:

The specification as amended below with replacement paragraphs shows added text with underlining and deleted text with ~~striketrough~~.

Please REPLACE the paragraph beginning at page 8, line 6, with the following paragraph:

In Fig. 1, when communication is made between the sub-network A and the sub-network B, a WDM (wavelength division multiplexing) technique is applied for saving the cost of the equipment and the transmission path fibers. In this case, the traffic between the sub-network A and the sub-network B occupies one (1) certain wavelength in the WDM network and is transmitted following a way or path, determined at each of the WDM nodes 1-4.

Please REPLACE the paragraph beginning at page 8, line 14, with the following paragraph:

Fig. 3 is a construction example of the composition of the WDM node 1; ~~and the WDM node 1~~ includes ~~a photean optical~~ a photean optical cross-connecting unit 10, a wavelength converting unit 11 having a variable-wavelength light source 100, a wavelength division multiplexing unit 12, a controlling unit 13 and a database (DB) 14. Wavelength/path controlling systems of other WDM nodes 2-4 and corresponding sub-networks B-D in Fig. 1 is respectively in the same relation as the wavelengths/paths controlling system of the WDM node 1 and the sub-network A shown in Fig. 3.